



(11) **EP 1 130 094 A2**

(12)

EUROPEAN PATENT APPLICATION

(43) Date of publication: 05.09.2001 Bulletin 2001/36

(21) Application number: 00114089.6

(22) Date of filing: 07.07.2000

(51) Int CI.7: **C12N 15/12**, C12N 15/11, C12N 15/10, C12N 15/70, C12N 15/85, C12N 5/10, C12N 1/21, C07K 14/47, C07K 16/18, C12Q 1/68

(84) Designated Contracting States:

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

Designated Extension States:

AL LT LV MK RO SI

(30) Priority: 08.07.1999 JP 19448699 11.01.2000 JP 2000118774

02.05.2000 JP 2000183765

(71) Applicant: Helix Research Institute Kisarazu-shi, Chiba 292-0812 (JP)

(72) Inventors:

Ota, Toshio
Fujisawa-shi, Kanagawa 251-0042 (JP)

 Nishikawa, Tetsuo Tokyo 173-0013 (JP)

 Isogai, Takao Inashiki-gun, Ibaraki 300-0303 (JP)

 Hayashi, Koji Ichihara-shi, Chiba 299-0125 (JP)

 Ishii, Shizuko Kisarazu-shi, Chiba 292-0812 (JP) Kawai, Yuri
Kisarazu-shi, Chiba 292-0812 (JP)

 Wakamatsu, Ai Kisarazu-shi, Chiba 292-0014 (JP)

 Sugiyama, Tomoyasu Kisarazu-shi, Chiba 292-0045 (JP)

 Nagai, Keiichi Higashiyamato-shi, Tokyo 207-0022 (JP)

 Kojima, Shinichi Kisarazu-shi, Chiba 292-0052 (JP)

 Otsuki, Tetsuji Kisarazu-shi, Chiba 292-0055 (JP)

 Koga, Hisashi Kisarazu-shi, Chiba 292-0055 (JP)

(74) Representative: VOSSIUS & PARTNER Siebertstrasse 4 81675 München (DE)

Remarks:

The sequence listing, which is published as annex to the application documents, was filed after the date of filing. The applicant has declared that it does not include matter which goes beyond the content of the application as filed.

(54) Primers for synthesizing full length cDNA clones and their use

(57) Primers for synthesizing full length cDNAs and their use are provided.

830 cDNA encoding a human protein has been isolated and nucleotide sequences of 5'-, and 3'-ends of the cDNA have been determined. Furthermore, primers for synthesizing the full length cDNA have been provided to clarify the function of the protein encoded by the cDNA. The full length cDNA of the present invention containing the translation start site provides information useful for analyzing the functions of the protein.

